

DEVELOPMENT OF PRINCIPLES FOR 3D-MODELING OF LINEAR STRUCTURES AND ENGINEERING INFRASTRUCTURE OF TERRITORIAL ENTITY

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The article proposes a system of principles for 3D-modeling of linear structures and engineering infrastructure of territorial entity. The implementation of these principles, according to the authors of the article, will allow solving the following scientific and technical tasks: to perform 3D-modeling in a metric that provides both cadastral and urban construction activities, to use generated 3D-model of engineering equipment to control construction and installation works when accepting a built engineering structure into service, to fill the Unified State Register of Real Estate with up-to-date and reliable spatial cadastral information, which allows, among other things, to create a unified geospace of territorial entity necessary for the sustainable development of the territory.

Keywords: territorial entity, Unified State Register of Real Estate, 3D-modeling, principles, coordinate systems, linear structures, engineering infrastructure

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